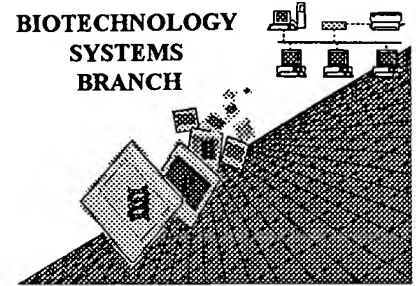


# **RAW SEQUENCE LISTING** **ERROR REPORT**

0200  
BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/431,888

Art Unit / Team No. : 01PE

Date Processed by STIC: 11/16/99

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**MARK SPENCER 703-308-4212**

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/431,888

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped " down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence.
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
<400> sequence id number  
000
- 10   J   Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11        Use of <213>Organism      Sequence(s)        are missing this mandatory field or its response.  
(NEW RULES)
- 12        Use of <220>Feature      Sequence(s)        are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/431,888

DATE: 11/16/1999  
TIME: 12:49:38

Input Set: I431888.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

Does Not Comply  
Corrected Diskette Needed

PS

```

1  <110> APPLICANT: Wise, Lyn M
2      Mercer, Andrew A
3      Savory, Loreen J
4      Fleming, Stephen B
5      Stacker, Stephen
6  <120> TITLE OF INVENTION: VASCULAR ENOTHELIAL GROWTH FACTOR-LIKE PROTEIN FROM ORF
7      VIRUS NZ2 BINDS AND ACTIVATES MAMMALIAN VEGF
8      RECEPTOR-2, AND USES THEREOF
9  <130> FILE REFERENCE: Sequence Listing for 44803
10 <140> CURRENT APPLICATION NUMBER: US/09/431,888
11 <141> CURRENT FILING DATE: 1999-11-02
12 <150> EARLIER APPLICATION NUMBER: 60/106,689
13 <151> EARLIER FILING DATE: 1998-11-02
14 <150> EARLIER APPLICATION NUMBER: 60/106,800
15 <151> EARLIER FILING DATE: 1998-11-03
16 <160> NUMBER OF SEQ ID NOS: 11
17 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO 1
19 <211> LENGTH: 402
20 <212> TYPE: DNA
21 <213> ORGANISM: Orf virus
22 <400> SEQUENCE: 1
23      atgaagttgc tcgtcggcat actagtagcc gtgtgcttgc accagtatct gctgaacgcg 60
24      gacagcaaca cgaaaggatg gtccgaagtg ctgaaaggca gcgagtgcaa gcctaggccg 120
25      attgttggtc ctgtaagcga gacgcaccca gagctgactt ctcagcgggt caaccgcgcc 180
26      tgtgtcacgt tgatgcgatg cggcgggtgc tgcaacgacg agagcttggga atgcgtcccc 240
27      acggaagaag taaacgtgac gatggaactc ctgggggcgt cgggctccgg tagtaacggg 300
28      atgcaacgtc tgagcttcgt agagcataag aaatgcgatt gtagaccacg attcacaacc 360
29      acgccaccga cgaccacaag gccgccaga agacgccgct ag 402
30 <210> SEQ ID NO 2
31 <211> LENGTH: 133
32 <212> TYPE: PRT
33 <213> ORGANISM: Orf virus
34 <400> SEQUENCE: 2
35      Met Lys Leu Leu Val Gly Ile Leu Val Ala Val Cys Leu His Gln Tyr
36      1          5          10          15
37      Leu Leu Asn Ala Asp Ser Asn Thr Lys Gly Trp Ser Glu Val Leu Lys
38      20          25          30
39      Gly Ser Glu Cys Lys Pro Arg Pro Ile Val Val Pro Val Ser Glu Thr
40      35          40          45
41      His Pro Glu Leu Thr Ser Gln Arg Phe Asn Pro Pro Cys Val Thr Leu
42      50          55          60
43      Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Ser Leu Glu Cys Val Pro
44      65          70          75          80

```

PAGE: 2

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/431,888

DATE: 11/16/1999  
TIME: 12:49:38

Input Set: I431888.RAW

```

45      Thr Glu Glu Val Asn Val Thr Met Glu Leu Leu Gly Ala Ser Gly Ser
46                      85                      90                      95
47      Gly Ser Asn Gly Met Gln Arg Leu Ser Phe Val Glu His Lys Lys Cys
48                      100                      105                      110
49      Asp Cys Arg Pro Arg Phe Thr Thr Thr Pro Pro Thr Thr Thr Arg Pro
50                      115                      120                      125
51      Pro Arg Arg Arg Arg
52                      130
53 <210> SEQ ID NO 3
54 <211> LENGTH: 147
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 3
58      Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
59      1                      5                      10                      15
60      Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
61                      20                      25                      30
62      Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
63                      35                      40                      45
64      Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
65                      50                      55                      60
66      Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
67      65                      70                      75                      80
68      Met Arg Cys Gly Gly Cys Ser Asn Asp Glu Gly Leu Glu Cys Val Pro
69                      85                      90                      95
70      Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
71                      100                      105                      110
72      Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
73                      115                      120                      125
74      Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Cys Asp Lys
75                      130                      135                      140
76      Pro Arg Arg
77      145
78 <210> SEQ ID NO 4
79 <211> LENGTH: 191
80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 4
83      Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
84      1                      5                      10                      15
85      Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
86                      20                      25                      30
87      Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
88                      35                      40                      45
89      Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
90      50                      55                      60
91      Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
92      65                      70                      75                      80
93      Met Arg Cys Gly Gly Cys Ser Asn Asp Glu Gly Leu Glu Cys Val Pro
94                      85                      90                      95

```

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/431,888

DATE: 11/16/1999  
TIME: 12:49:38

Input Set: I431888.RAW

```

95      Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
96                100                105                110
97      Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
98                115                120                125
99      Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly
100             130                135                140
101      Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln Thr
102             145                150                155                160
103      Cys Lys Cys Ser Cys Lys Asn Thr His Ser Arg Cys Lys Ala Arg Gln
104                165                170                175
105      Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
106                180                185                190
107 <210> SEQ ID NO 5
108 <211> LENGTH: 170
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
111 <400> SEQUENCE: 5
112      Met Pro Val Met Arg Leu Phe Pro Cys Phe Leu Gln Leu Leu Ala Gly
113             1                5                10                15
114      Leu Ala Leu Pro Ala Val Pro Pro Gln Gln Trp Ala Leu Ser Ala Gly
115                20                25                30
116      Asn Gly Ser Ser Glu Val Glu Val Val Pro Phe Gln Glu Val Trp Gly
117                35                40                45
118      Arg Ser Tyr Cys Arg Ala Leu Glu Arg Leu Val Asp Val Val Ser Glu
119                50                55                60
120      Tyr Pro Ser Glu Val Glu His Met Phe Ser Pro Ser Cys Val Ser Leu
121             65                70                75                80
122      Leu Arg Cys Thr Gly Cys Cys Gly Asp Glu Asp Leu His Cys Val Pro
123                85                90                95
124      Val Glu Thr Ala Asn Val Thr Met Gln Leu Leu Lys Ile Arg Ser Gly
125                100                105                110
126      Asp Arg Pro Ser Tyr Val Glu Leu Thr Phe Ser Gln His Val Arg Cys
127                115                120                125
128      Glu Cys Arg Pro Leu Arg Glu Lys Met Lys Pro Glu Arg Arg Arg Pro
129                130                135                140
130      Lys Gly Arg Gly Lys Arg Arg Arg Glu Asn Gln Arg Pro Thr Asp Cys
131             145                150                155                160
132      His Leu Cys Gly Asp Ala Val Pro Arg Arg
133                165                170
134 <210> SEQ ID NO 6
135 <211> LENGTH: 188
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 6
139      Met Ser Pro Leu Leu Arg Arg Leu Leu Leu Ala Ala Leu Leu Gln Leu
140             1                5                10                15
141      Ala Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln
142                20                25                30
143      Arg Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln
144                35                40                45

```

PAGE: 4

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/431,888

DATE: 11/16/1999

TIME: 12:49:38

Input Set: I431888.RAW

```

145      Pro Arg Glu Val Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val
146              50                      55                      60
147      Ala Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly
148              65                      70                      75                      80
149      Cys Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln
150                      85                      90                      95
151      Val Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly
152                      100                      105                      110
153      Glu Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys
154                      115                      120                      125
155      Lys Asp Ser Ala Val Lys Pro Asp Ser Pro Arg Pro Leu Cys Pro Arg
156                      130                      135                      140
157      Cys Thr Gln His His Gln Arg Pro Asp Pro Arg Thr Cys Arg Cys Arg
158      145                      150                      155                      160
159      Cys Arg Arg Arg Ser Phe Leu Arg Cys Gln Gly Arg Gly Leu Glu Leu
160                      165                      170                      175
161      Asn Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg
162                      180                      185
163 <210> SEQ ID NO 7
164 <211> LENGTH: 228
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 7
168      His Asn Arg Glu Gln Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile
169              1                      5                      10                      15
170      Lys Phe Ala Ala Ala His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp
171                      20                      25                      30
172      Asn Glu Trp Arg Lys Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp
173                      35                      40                      45
174      Val Gly Lys Glu Phe Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro
175                      50                      55                      60
176      Cys Val Ser Val Tyr Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu
177      65                      70                      75                      80
178      Gln Cys Met Asn Thr Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu
179                      85                      90                      95
180      Ile Thr Val Pro Leu Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe
181                      100                      105                      110
182      Ala Asn His Thr Ser Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg
183                      115                      120                      125
184      Gln Val His Ser Ile Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln
185      130                      135                      140
186      Cys Gln Ala Ala Asn Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn
187      145                      150                      155                      160
188      His Ile Cys Arg Cys Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp
189                      165                      170                      175
190      Ala Gly Asp Asp Ser Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn
191                      180                      185                      190
192      Lys Glu Leu Asp Glu Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu
193                      195                      200                      205
194      Arg Pro Ala Ser Cys Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys

```

PAGE: 5

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/431,888

DATE: 11/16/1999  
TIME: 12:49:38

Input Set: I431888.RAW

```

195          210          215          220
196      Gln Cys Val Cys
197      225
198 <210> SEQ ID NO 8
199 <211> LENGTH: 197
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 8
203      Met Asp Ser Arg Ser Ala Ser His Arg Ser Thr Arg Phe Ala Ala Thr
204          1          5          10          15
205      Phe Tyr Asp Ile Glu Thr Leu Lys Val Ile Asp Glu Glu Trp Gln Arg
206          20          25          30
207      Thr Gln Cys Ser Pro Arg Glu Thr Cys Val Glu Val Ala Ser Glu Leu
208          35          40          45
209      Gly Lys Ser Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Asn Val Phe
210          50          55          60
211      Arg Cys Gly Gly Cys Cys Asn Glu Glu Ser Leu Ile Cys Met Asn Thr
212          65          70          75          80
213      Ser Thr Ser Tyr Ile Ser Lys Gln Leu Phe Glu Ile Ser Val Pro Leu
214          85          90          95
215      Thr Ser Val Pro Glu Leu Val Pro Val Lys Val Ala Asn His Thr Gly
216          100          105          110
217      Cys Lys Cys Leu Pro Thr Ala Pro Arg His Pro Tyr Ser Ile Ile Arg
218          115          120          125
219      Arg Ser Ile Gln Ile Pro Glu Glu Asp Arg Cys Ser His Ser Lys Lys
220          130          135          140
221      Leu Cys Pro Ile Asp Met Leu Trp Asp Ser Asn Lys Cys Lys Cys Val
222          145          150          155          160
223      Leu Gln Glu Glu Asn Pro Leu Ala Gly Thr Glu Asp His Ser His Leu
224          165          170          175
225      Gln Glu Pro Ala Leu Cys Gly Pro His Met Met Phe Asp Glu Asp Arg
226          180          185          190
227      Cys Glu Cys Val Cys

```

```

228          195

```

```

229 <210> SEQ ID NO 9

```

```

230 <211> LENGTH: 13

```

```

231 <212> TYPE: PRT

```

```

232 <213> ORGANISM: Orf virus

```

```

233 <400> SEQUENCE: 9

```

```

W--> 234      Pro Xaa Cys Xaa Xaa Xaa Xaa Arg Cys Xaa Gly Cys Cys
          1          5          10

```

```

236 <210> SEQ ID NO 10

```

```

237 <211> LENGTH: 399

```

```

238 <212> TYPE: DNA

```

```

239 <213> ORGANISM: Orf virus

```

```

240 <400> SEQUENCE: 10

```

```

241      atgaagttgc tcgtcggcat actggtagcc gtgtgcttgc accagtatct gctgaacgcg 60
242      gacagcacga aaacatggtc cgagggtgtt gaaagcagta agtgcaagcc aaggccaacg 120
243      gtcgttcccg taggcgaggc gcacccagag ctaacttctc agcggttcaa cccgcagtgt 180
244      gtcacagtga tgcgatgcgg cgggtgctgc aacgacgaga gcttggaatg cgtccccacg 240

```

*see item 10 on Enn Summary Sheet*

PAGE: 6

VERIFICATION SUMMARY  
PATENT APPLICATION US/09/431,888

DATE: 11/16/1999  
TIME: 12:49:38

Input Set: I431888.RAW

Line	? Error/Warning	Original Text
234	W "N" or "Xaa" used: Feature required	Pro Xaa Cys Xaa Xaa Xaa Xaa Arg Cys Xaa G